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than V1, obtained at a temperature T2 which is at least 20°C higher than T1,

wherein said block copolymers comprise in average, in their structure at least

- a polymeric segment which is soluble in the electrolyte at the temperatures T1 and T2, and
- more than two noncontiguous polymeric segments exhibiting an LCST in the said electrolyte and having an average number of atoms along their skeleton which is greater than 50.

--33. (new) The medium according to Claim 32, wherein the temperature T1 is between 15°C and 30°C.

--34. (new) The medium according to Claim 32, wherein the temperature T2 is between 40°C and 80°C.

--35. (new) The medium according to Claim 32, wherein the viscosity V2 is greater than the viscosity V1 by at least a factor equal to 5 at the viscosity V1.

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--36. (new) The medium according to Claim 32, wherein the LCST of a significant fraction of the said segments with LCST is between T1 and T2.

--37. (new) The medium according to Claim 32, wherein all the segments with LCST represent between 2% and 25% and preferably between 5 and 15% of the total average molar mass of the copolymers.

--38. (new) The medium according to Claim 32, wherein all or some of the blocks with LCST possess along their skeleton an average number of atoms greater than 75, or an average molecular mass greater than 2 500.

--39. (new) The medium according to Claim 32, wherein all or some of the said polymers exist in the form of linear block polymers.

--40. (new) The medium according to Claim 32, wherein all or some of the said polymers exist in the form of comb copolymers whose skeleton consists of one or more segments which are soluble in the electrolyte at the temperatures T1 and T2.

--41. (new) The medium according to Claim 32, wherein all or some of the copolymers possess an average number of segments with LCST per chain greater than 5.

--42. (new) The medium according to Claim 32, wherein all or some of the copolymers possess a molecular

mass greater than 30 000 or a number of atoms along the main skeleton greater than 2 000.

--43. (new) The medium according to Claim 32, wherein all or some of the copolymers possess a molecular mass of between 50 000 and 3 000 000 or a number of atoms along the main skeleton of between 2 500 and 100 000.

--44. (new) The medium according to Claim 32, wherein all or some of the copolymers possess an average number of atoms along a section of soluble segment, between two consecutive binding points of the said soluble segment with segments with LCST, greater than 210.

--45. (new) The medium according to Claim 32, wherein all or some of the said polymeric segments with LCST are derived from one or more copolymers chosen from:

- polyvinyl alkyl ethers,
- hydroxyalkyl celluloses,
- homopolymers of ether oxides,
- random and block copolymers of ether oxides,
- alkylene homo- and copolymers, and
- polyacrylic derivatives derived from the homopolymerization or copolymerization of monomers chosen from acrylic and methacrylic acids, alkylacrylates and methacrylates, N-alkyl-acrylamides or -methacrylamides, N',N-dialkyl-acrylamides or -meth-acrylamides, aryl-